

Jonas Satkūnas

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

1989 – 1993 Vilnius University and Institute of Geology. Diploma of Doctor of Natural Sciences
1980 – 1985 Vilnius University. Diploma of hydrogeologist and engineer geologist

PROFESSIONAL EXPERIENCE

2019 01 -until now Nature Research Centre, researcher.
1993-2020 Vilnius University, lecturer (1993-2006), Associate Professor (2007-2020)
1992- until now Geological Survey of Lithuania under the Ministry of Environment.
Senior advisor since 2020
Senior geologist February 2018-02 – 2020-04
Director: 2014 -02– February 2018-02
Deputy Director: 1994-04 – 2014-02
Head of Research Division –programme director of Geological Survey of Lithuania: December 1991-12-1994-04.
1985- 1992 State Geological Enterprise, Vilnius: Geologist, head of geological mapping division (1989-10-1991-12)

RESEARCH INTERESTS

Environmental geology, geological processes and geohazards, Quaternary geology and geomorphology, climatostratigraphy, geoheritage.

PUBLICATIONS, PERIOD 2017-2022

Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (with citation index):

1. Ignatavičius, G., Unsal, M. H., Busher, P. E., Wołkowicz, S., **Satkūnas, J.**, & Valskys, V. (2022). Mercury and methylmercury in Baltic Sea sediments, and Polish and Lithuanian soils. *Geological quarterly*, 66, 1-8. doi:[10.7306/gq.1654](https://doi.org/10.7306/gq.1654) JCR/2021 IF 1.576 / Q2 ECOLOGY.
2. Valskys, V., Rahidul Hassan, H., Wołkowicz, S., **Satkūnas, J.**, Kibirskštis, G., & Ignatavičius, G. (2022). A review on detection techniques, health hazards and human health risk assessment of arsenic pollution in soil and groundwater. *Minerals*, 12 (10), 1-31.

- doi:[10.3390/min12101326](https://doi.org/10.3390/min12101326). JCR/2021 IF 2.818 / Q2 Geochemistry & Geophysics / Q2 Mineralogy / Q2 Mining & Mineral processing .
3. Ignatavičius, G., Unsal, M.H., Busher, P.E., Wołkowicz, S., **Satkūnas, J.**, Šulijienė, G., Valskys, V. 2022. Geochemistry of mercury in soils and water sediments. *AIMS Environmental Science*, 9 (3): 261–281.
 4. Weckwerth, P., Kalinska, E., **Satkūnas, J.** 2022. Glacier activity and meltwater dynamic in landscape evolution and its transformation. *Quaternary International*, 617: 1–3. JCR/2020 IF 2.13 / Q3 GEOGRAPHY, PHYSICAL / Q3 GEOSCIENCES, MULTIDISCIPLINARY .
 5. Bitinas, A., Molodkov, A., Damušytė, A., Grigienė, A., **Satkūnas, J.**, Šeirienė, V., Šlauteris, A. 2022. Reconstruction of the geological history of the Lithuanian maritime region from MIS 6 to MIS 3. *Quaternary International*, 617: 4–20. JCR/2020 IF 2.13 / Q3 GEOGRAPHY, PHYSICAL / Q3 GEOSCIENCES, MULTIDISCIPLINARY .
 6. Ignatavičius G., **Satkūnas J.**, Grigienė A., Nedveckytė I., Hassan H.R., Valskys V. 2022. Heavy metals in sapropel of lakes in suburban territories of Vilnius (Lithuania): Reflections of paleoenvironmental conditions and anthropogenic influence. *Minerals*, 12 (1): art. no. 17. JCR/2020 IF 2.644 / Q2 GEOCHEMISTRY & GEOPHYSICS / Q2 MINERALOGY .
 7. **Satkūnas J.**, Šliaupa S. 2021. Evidence of paleoseismic activity recorded in glaciolacustrine sediments predating the Weichselian glacial maximum in East Lithuania. *Quaternary Research*, 1-15. CA WoS 2019 IF 2.310 / Q3 GEOGRAPHY, PHYSICAL / Q2 GEOSCIENCES, MULTIDISCIPLINARY
 8. **Satkūnas, J.**, Minkevičius, V., Guobytė, R., Baubinienė, A., Linkevičienė, R., Taminskas, J. 2020. Morphometric indicators of insular and marginal morainic uplands (based on LiDAR data) of the Last and pre-Last Glaciations, case of Lithuania. *Baltica*, 33 (2), 166–176. Vilnius. ISSN 0067-3064.
 9. Taminskas, J., Šimanauskienė, R., Linkevičienė, R., Volungevičius, J., Slavinskienė, G., Povilanskas, R., **Satkūnas, J.** 2020. Impact of hydro-climatic changes on coastal dunes landscape according to normalized difference vegetation index (The case study of Curonian Spit). *Water*, 12 (11): art. no. 3234. CA WoS 2019 IF 2.544 / Q2 WATER RESOURCES .
 10. Slavinskienė, G., Jurevičius, A., **Satkūnas, J.**, Šimanauskienė, R. 2019. Landfill leachate quantity and attenuation distance of inorganic contaminants in the groundwater of different hydrogeological systems: a case study of Lithuania. *Baltica*, 32 (2): 127–138. CA WoS 2018 IF 0.5 / Q4 GEOLOGY.
 11. Armanavičius, A., **Satkūnas, J.** 2019. Application of aerial photogrammetric technology for determination and parametrization of areas affected by extraction of raw materials. *Baltica*, 32 (2): 202–209. CA WoS 2018 IF 0.5 / Q4 GEOLOGY.
 12. Šliaupa, S., **Satkūnas, J.**, Motuza, G. Šliaupienė, R. 2017. Morphotectonic implication of the Paleoproterozoic Mid-Lithuanian Suture Zone. *Geological Quarterly*, 61 (3): 590–601. doi:10.7306/gq.1366. CA WoS 2017 IF 1.128 / Q3 GEOLOGY.
 13. Ignatavičius G., Valskys V., Bulskaya I., Paliulis D., Zigmontienė A., **Satkūnas J.** 2017. Heavy metal contamination in surface runoff sediments of the urban area of Vilnius, Lithuania. *Estonian Journal of Earth Sciences*, 66 (1): 13–20. CA WoS 2017 IF 0.927 / Q4 GEOSCIENCES, MULTIDISCIPLINARY.

Books:

1. **Satkūnas J.** 2022. Geologinių vertybių pažinimo raida Ventos regioniniame parke. *Gamtos ir kultūros vertybės regioniniuose parkuose. V tomas, 2022. Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos.*
2. **Satkūnas J.** 2022. Žagarės krašto savastis – gyvenimas prie ozo. *Gamtos ir kultūros vertybės regioniniuose parkuose. V tomas, 2022. Valstybinė saugomų teritorijų tarnyba prie Aplinkos ministerijos.*

3. **Satkūnas J.** 2021 How to demonstrate the role of geology in a modern society: the case of Lithuania, where geology is not visible. *HILL, P. R., LEBEL, D., HITZMAN, M., SMELROR, M. & THORLEIFSON, H. (eds) The Changing Role of Geological Surveys. Geological Society, London, Special Publications, 499,*
4. Mikulėnas V., Patkauskas S., **Satkūnas J.**, Vileikienė L. 2018. *Vilniaus pilių kalvos ir slėniai.* Vilnius : Ex Arte. 111 p.
5. Motuza. G., **Satkūnas J.** Giparas G. Gudonytė J. Januška V.A., Juozapavičius G. Virbickienė I. 2018. *Lietuvos gelmių aruodai.* Vilnius : Ex Arte. 143 p.

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

2020 Project leader. Glacial overdeepenings of the Baltic area.
Cooperation Order no. 19'057 with National Cooperative for the
Disposal of Radioactive Waste, NAGRA, Switzerland.

SCIENTIFIC CONFERENCES (2019-2022)

International scientific conferences:

1. **Satkūnas J.** Satkūnienė I. 2022. Enchanted treasures in hills and lows of Alanta. *International scientific conference/ The newest archaeological investigations. 25-26 November 2022. Panevėžys.*
2. Wolkowicz S., **Satkūnas J.**, Kostz-Sikora P., Tymiski M., Siewruk-Wroblewska D., Armonavičius A. 2022. Polish Lithuanian trade in mineral resources (2000-2020). *XXXI Konferencija Aktualia ir perspektywy gospodarki surowcami mineralnymi. Instytut gospodarki Surowcami Mineralnymi i Energię Polskiej Akademii Nauk. Krakow. ISBN I 978-83-964234-2-9.*
3. Wolkowicz S., **Satkūnas J.**, Kostz-Sikora P. 2022. The PanAfGeo Project as a platform for the development of bilateral/multilateral cooperation in the field of mineral resources management with African countries. *XXXI Konferencija Aktualia ir perspektywy gospodarki surowcami mineralnymi. Instytut gospodarki Surowcami Mineralnymi i Energię Polskiej Akademii Nauk. Krakow. ISBN I 978-83-964234-2-9.*
4. Minkevičius V., Taminskas J., Mikulėnas V., **Satkūnas J.** & Danielius S. 2022. Karst development intensity - the case of the North Lithuania. *Geosciences for a sustainable future. CONGRESSO SGI-SIMP 2022. Torino. Abstract book.*
5. Danielius S., Minkevičius V., Mikulėnas V., **Satkūnas J.** 2022. Application of airborne photogrammetry for the monitoring of the karst phenomena. *Quaternary of the Eastern Baltic Region. Excursion guide and abstracts of international field symposium, 10-15 September 2022, Vilnius, Lithuania / Eds: V. Šeirienė and A. Bitinas. Nature Research Centre, Vilnius, 2022.*
6. **Satkūnas J.**, Minkevičius V., Guobytė R., Baubiniene A., Linkevičienė, R. Taminskas J. 2022. Terrain ruggedness index (TRI) and slope angles (SA) of landforms of insular and marginal morainic highlands (based on the lidar data) of the Last and Pre-last glaciations, case of Lithuania. *Quaternary of the Eastern Baltic Region. Excursion guide and abstracts of international field symposium, 10-15 September 2022, Vilnius, Lithuania / Eds: V. Šeirienė and A. Bitinas. Nature Research Centre, Vilnius, 2022.*
7. Minkevičius V. Mikulėnas V. **Satkūnas J.** Investigations and management of karst phenomena, Lithuania. *Seminar about karst processes. Organiser – Directorate of Aukštaitija Protected Areas. Dates – 07-08.09.2022. Venue – Rural Tourism Homestead “Sodeliškiai Manor”, Sodeliškiai street 1A, Sodeliškiai village, Biržai district, Lithuania.*

8. Mikulėnas V., **Satkūnas J.** Erratic boulders from Scandinavia: peculiarities of management and geoconservation in Lithuania. *X International ProGEO Symposium, Segovia, Spain, 8-11th June, 2020.*
9. **Satkūnas, J.**, Slavinskiene, G., Slavinskas, A., Taminskas, J. and Zanevskij Z. Springs in Quaternary landscape – source of information on climate change and anthropopression. In Börner, A., Hüneke, H., Lorenz, S. (Eds.) (2019): Field Symposium of the INQUA PeriBaltic Working Group "From Weichselian ice-sheet dynamics to holocene land use development in Western Pomerania and Mecklenburg": abstract volume, (Scientific Technical Report ; 19/01), International Field Symposium of the INQUA PeriBaltic Working Group (Greifswald 2019), Potsdam : GFZ German Research Centre for Geosciences, 136 p. DOI: <http://doi.org/10.2312/GFZ.b103-19012>
10. Taminskas, J., Mikulėnas, V., **Satkūnas, J.** and Minkevičius, V. Trends of development of karstic landscape due to climate factors - case of Lithuania. In Börner, A., Hüneke, H., Lorenz, S. (Eds.) (2019): Field Symposium of the INQUA PeriBaltic Working Group "From Weichselian ice-sheet dynamics to holocene land use development in Western Pomerania and Mecklenburg": abstract volume, (Scientific Technical Report; 19/01), International Field Symposium of the INQUA PeriBaltic Working Group (Greifswald 2019), Potsdam : GFZ German Research Centre for Geosciences. DOI: <http://doi.org/10.2312/GFZ.b103-19012>
11. Nirei H., Marker B., **Satkūnas J.**, Hiyama T., Kazaoka O. Furuno. K. and Yamada Y. 2019. Redefinition of Antropogenic Stratigraphy. Proceedings of the 29th Symposium on Geo-Environments and Geo-Technics 2019. P.153-159. Report: received 1 November 2019.

National scientific conferences:

1. **Satkūnas J.**, Purnas V. Apsirūpinimo energetiniais ištekliais perspektyvos Lietuvoje. LMA konferencija Alytuje. 2022-10-26.
2. **Satkūnas J.** Afrika geologo žvilgsniu: žmogaus ir gamtos jėgų šėlsmas. Pranešimas konferencijoje Klimato kaitos aktualijos. Pasvalio krašto muziejus. 2022. Kovo 15 d.
3. Taminskas J., Mikulėnas V., Danielius S., **Satkūnas J.**, Minkevičius V. Karstinės denudacijos intensyvumas ir klimato kaita – Lietuvos atvejis. Karst Denudation Intensity and Climate Change – Case of Lithuania. Konferencija „Klimato kaita Lietuvoje: globalūs ir nacionaliniai iššūkiai, stebėsena ir politikos gairės“. 2020 m. gegužės 22 d.

PARTICIPATION IN THE STUDY PROCESS

Supervision of PhD students:

Vytautas Minkevičius. Doctoral studies. Geology (N005). Influence of environmental factors to development sulphatic karst due to climate change and anthropogenic pressure. 2019-10-01 – 2023-09-01.

Vaidotas Valskys Biomedicine, ecology and environment. (03B). Conditions of accumulation of sapropel and their influence to chemical composition and contamination. Doctoral dissertation elaborated in 2013–2017 in Vilnius University, defended in 12th October 2017.

Audrius Armanavičius, Doctoral studies. Geology (N005). Perspectives of Quaternary mineral resources. 2017-10-02 – 2023-09-30.